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Temperature, high, chemical reactions at (LEWIS), 1086.
Thiocarbamides, compounds of mercuric nitrite and (RÂY), 106.
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U.

Unsaturated compounds, absorption spectra of (MACBETH and STEWART), 829.

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FORMULA INDEX.

The following index of organic compounds of known empirical formula is arranged according to Richter's system (see *Lexikon der Kohlenstoff-Verbindungen*).

The elements are given in the order C, H, O, N, Cl, Br, I, F, S, P, and the remainder alphabetically.

The compounds are arranged—

Firstly, in groups according to the number of carbon atoms (thus C_1 group, C_2 group, etc.).

Secondly, according to the number of other elements besides carbon contained in the molecule (thus 5 IV indicates that the molecule contains five carbon atoms and four other elements).

Thirdly, according to the nature of the elements present in the molecule (given in the above order).

Fourthly, according to the number of atoms of each single element (except carbon) present in the molecule.

Salts are placed with the compounds from which they are derived. The chlorides, bromides, iodides, and cyanides of quaternary ammonium bases, however, are registered as group-substances.

C_1 Group.

CH_4 Methane, electrical ignition of mixtures of air and (Wheeler), 411.

1 II

CHN Hydrocyanic acid, sodium salt, hydrolysis of (Worley and Browne), 1057.

CH_2O Formaldehyde, action of ammonium chloride with (Werner), 844.

CH_2O_2 Formic acid, kinetics of oxidation of, and its salts (Dhar), 707.

CH_2N_2 Cyanamide, constitution of (Colson), 554.

CH_5N Methylamine, preparation of (Werner), 844.

1 III

CH_4ON_2 Carbamide, decomposition of, by nitrous acid (Werner), 863.

CH_4N_2S Thiocarbamide, salts of (Dixon), 684; compounds of alkyl esters with (Taylor), 650.

C_2 Group.

C_2H_2 Acetylene, ignition of mixtures of air and (Haward and Sastry), 841.

C_2H_4 Ethylene, action of bromine water on (Read and Williams), 240.

2 II

$C_2H_2O_4$ Oxalic acid, kinetics of oxidation of, and its salts (Dhar), 707.

C_2H_7N Dimethylamine, preparation of (Werner), 844.

2 III

C_2H_7ON Acetaldehyde-ammonia, action of, on quinones (Ghosh), 608.

2 IV

$C_2H_7O_2N_2S$ Substance, from thiocarbamide and methyl nitrate (Taylor), 657.

C_3 Group.

C_3H_6O Acetone, propagation of flame in mixtures of air and (Wheeler and Whitaker), 267; compounds of calcium chloride and (Bagster), 494.

$C_3H_6O_2$ Methyl acetate, effect of sucrose on the hydrolysis of (Griffith, Lamble, and Lewis), T., 390.

3 III

$C_3H_7N_2S_2$ Substance, from thiocarbamide and methyl thiocyanate (Taylor), 659.

C_4 Group.

$C_4H_{10}O$ Ethyl ether, compound of ferric chloride with (FORSTER, COOPER, and YARROW), 809.

4 III

$C_4H_4O_2S$ $\alpha\beta$-Thiocrotonic acid, and its salts (RÂY and DEY), 510.

4 IV

$C_4H_5O_2IS$ β-Iodo-$\alpha\beta$-thiobutyric acid, silver salt (RÂY and DEY), 512.

$C_4H_{14}O_4N_4S_2$ Substance, from methyl sulphate and thiocarbamide (TAYLOR), 655.

C_5 Group.

$C_5H_8O_2$ Acetylacetone, action of aromatic amines on (TURNER), 1.

C_6 Group.

C_6H_6 Benzene, reaction of phthalyl chloride with (COPISAROW), 10.

6 II

$C_6H_6O_2$ Catechol, orientation and scission of substituted ethers of (JONES and ROBINSON), 903; (G. M. and R. ROBINSON), 929.

$C_6H_8N_2$ Phenylhydrazine, action of, on opianic, nitro-opianic, and phthalonic acids (MITTER and SEN), 988.

6 III

$C_6H_4ON_2$ Benz*iso*oxadiazole, preparation of (GREEN and ROWE), 618.

6 IV

$C_6H_4O_4N_2S$ Benzenediazo-1-oxidesulphonic acids, and their salts (MORGAN and TOMLINS), 501.

Phenol-3- and -4-diazoniumsulphonates (MORGAN and TOMLINS), 503.

$C_6H_4NBr_2I$ Dibromoiodoanilines (SUDBOROUGH and LAKHUMALANI), 47.

$C_6H_{18}O_4N_4S_2$ Substance, from ethyl sulphate and thiocarbamide (TAYLOR), 656.

C_7 Group.

$C_7H_6O_6$ 2:3:4:6-Tetrahydroxybenzoic acid ($+ H_2O$) (NIERENSTEIN), 5.

7 III

$C_7H_3O_5N_3$ Substance, from diazotisation of 5-nitro-3-aminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 541.

$C_7H_4O_2Cl_2$ 4:5-Dichlorocatechol methylene ether (ORR, ROBINSON, and WILLIAMS), 949.

$C_7H_4O_2Br_2$ 4:5-Dibromocatechol methylene ether (JONES and ROBINSON), 913.

$C_7H_5ON_3$ Formyl-*p*-phenylenediazoimide ($+ 1\frac{1}{2}H_2O$) (MORGAN and UPTON), 190.

$C_7H_6ON_2$ 5-Methylbenz*iso*oxadiazole (GREEN and ROWE), 619.

$C_7H_6O_2Br_2$ 4:5-Dibromoguaiacol (HINDMARSH, KNIGHT, and ROBINSON), 942.

$C_7H_7O_2Br$ 5-Bromoguaiacol (HINDMARSH, KNIGHT, and ROBINSON), 941.

7 IV

$C_7H_3O_5N_2Cl$ Substance, from diazotisation of chloroaminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 543.

$C_7H_2O_6N_2Cl$ 4-Chloro-5:6-dinitrocatechol methylene ether (ORR, ROBINSON, and WILLIAMS), 951.

$C_7H_4O_2ClBr$ 4-Chloro-5-bromocatechol methylene ether (ORR, ROBINSON, and WILLIAMS), 950.

$C_7H_4O_4NCl$ 4-Chloro-5-nitrocatechol methylene ether (ORR, ROBINSON and WILLIAMS), 951.

$C_7H_4O_4NBr$ 4-Bromo-5-nitrocatechol methylene ether (JONES and ROBINSON), 918.
$C_7H_4O_3NCl$ 3-Chloro-5-nitrosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 542.
$C_7H_5O_6N_2Br$ 5-Bromo-4:6-dinitroguaiacol (HINDMARSH, KNIGHT, and ROBINSON), 942.
$C_7H_6O_3NCl$ 3-Chloro-5-aminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 542.
$C_7H_6O_3NBr$ 3-Bromo-5-aminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 545.
$C_7H_6O_4NCl$ 4-Chloro-5-nitroguaiacol (GIBSON, SIMONSEN, and RAU), 82.
$C_7H_6O_4NBr$ 6-Bromo-5-nitroguaiacol (JONES and ROBINSON), 917.

C_8 Group.

$C_8H_8O_5$ 2:3:4:6-Tetrahydroxyacetophenone (NIERENSTEIN), 6.
$C_8H_{17}N$ Coniine, compound of mercuric nitrite and (RÂY), 507.

8 III

$C_8H_4O_3Cl_2$ Phthalyl chloride, reaction of, with benzene (COPISAROW), 10.
$C_8H_4O_5N_2$ 5-Nitro-3-cyanosalicylic acid ($+H_2O$) (MELDOLA, FOSTER, and BRIGHTMAN), 545.
$C_8H_5O_3Cl$ 6-Chloropiperonal (ORR, ROBINSON, and WILLIAMS), 948.
$C_8H_5O_4Cl$ 6-Chloropiperonylic acid (ORR, ROBINSON, and WILLIAMS), 948.
$C_8H_6O_{10}N_2$ 4:5:6-Trinitroethylenedioxybenzene (G. M. and R. ROBINSON), 935.
C_8H_7ON Substance, from *p*-benzoquinone and acetaldehyde-ammonia (GHOSH), 611.
$C_8H_7ON_3$ Acetyl-*p*-phenylenediazoimide ($+H_2O$) (MORGAN and UPTON), 193.
$C_8H_9O_3N$ Nitromethoxybenzoic acids, and their salts (SIMONSEN and RAU), 224.
$C_8H_6O_6N_2$ 4:5-Dinitro-6-aminoethylenedioxybenzene (G. M. and R. ROBINSON), 936.
$C_8H_8O_5N_2$ Nitroaminomethoxybenzoic acids, and their salts (SIMONSEN and RAU), 226.
$C_8H_8O_6N_2$ 3:4-Dinitroveratrole (GIBSON, SIMONSEN, and RAU), 83; (JONES and ROBINSON), 911.
$C_8H_8O_8N_2$ 3:5-Dinitro-2:4-dihydroxy-β-hydroxyethoxybenzene (G. M. and R. ROBINSON), 938.
$C_8H_9O_3N$ Aminomethoxybenzoic acids, and their salts (SIMONSEN and RAU), 224.
p-Hydroxyphenylglycine, preparation of (MELDOLA, FOSTER, and BRIGHTMAN), 552.
$C_8H_9O_4N$ Nitro-2-ethoxyphenols (G. M. and R. ROBINSON), 932.
$C_8H_9O_6N_3$ Dinitro-3-aminoveratroles (GIBSON, SIMONSEN, and RAU), 79, 81.
$C_8H_{10}O_5N_2$ 5-Nitro-3-aminoveratrole, and its salts (GIBSON, SIMONSEN, and RAU), 75.
6-Nitroveratrylamine (JONES and ROBINSON), 914.
$C_8H_{10}O_8N_4$ 3:5-Dinitro-2:4-diaminophenetole (G. M. and R. ROBINSON), 934.
$C_8H_{10}O_9N_4$ 3:5-Dinitro-2:4-diamino-β-hydroxyethoxybenzene (G. M. and R. ROBINSON), 936.
$C_8H_{11}O_3N$ 3-Aminoveratrole, and its picrate (GIBSON, SIMONSEN, and RAU), 79.
$C_8H_{13}ON$ Tropinone (ROBINSON), 762.

8 IV

$C_8H_7O_6N_2Br$ Bromodinitroveratroles (JONES and ROBINSON), 924; (HINDMARSH, KNIGHT, and ROBINSON), 943.

$C_8H_8O_4NBr$ 6-Bromo-5-nitroveratrole (JONES and ROBINSON), 917.

$C_8H_9O_7NS$ Nitroveratrolesulphonic acid, potassium salt of (BROWN and ROBINSON), 953.

$C_8H_{11}O_5NS$ 3- and 5-Aminoveratrole-4-sulphonic acids (BROWN and ROBINSON), 954.

$C_8H_{12}O_4N_4S_2$ Substance, from ethyl oxalate and thiocarbamide (TAYLOR), 661.

8 V

$C_8H_6ONBr_2I$ Dibromoiodoacetanilides (SUDBOROUGH and LAKHUMALANI), 47.

$C_8H_8O_6NClS$ 5-Nitroveratrole-4-sulphonyl chloride (BROWN and ROBINSON), 953.

C_9 Group.

$C_9H_6O_5$ Phthalonic acid, action of phenylhydrazine on (MITTER and SEN), 988.

$C_9H_{16}O_7$ Substance, from trimethyl glucose and hydrocyanic acid (DENHAM and WOODHOUSE), 248.

$C_9H_{18}O_6$ Trimethyl glucose (DENHAM and WOODHOUSE), 244.

9 III

$C_9H_8O_2N_2$ 5:6-Methylenedioxy-2-methylbenziminazole (JONES and ROBINSON), 916.

$C_9H_8O_4N_2$ 5-Nitro-2:3-dimethoxybenzonitrile (GIBSON, SIMONSEN, and RAU), 76.

$C_9H_8O_5N_2$ 5-Nitro-4-acetylaminocatechol methylene ether (JONES and ROBINSON), 914.

$C_9H_8O_6N_2$ 5-Nitro-3-acetylaminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 541.

$C_9H_9O_2Br$ β-Phenyl-α-bromopropionic acid, kinetics and dissociation constant of (SENTER and MARTIN), 447.

$C_9H_9O_3Br$ 5-Bromo-2-methoxyphenyl acetate (HINDMARSH, KNIGHT, and ROBINSON), 941.

$C_9H_9O_5N$ Methyl nitromethoxybenzoates (SIMONSEN and RAU), 229.

$C_9H_{10}O_6N_2$ 6-Nitro-2-amino-3:4-dimethoxybenzoic acid (GIBSON, SIMONSEN, and RAU), 75.

$C_9H_{11}O_2Br$ 6-Bromohomoveratrole (JONES and ROBINSON), 919.

$C_9H_{11}N_3S_2$ Substance, from thiocarbamide and benzyl thiocyanate (TAYLOR), 660.

$C_9H_{12}O_5N_2$ 5(or 6)-Nitro-6(or 5)-amino-1:2:4-trimethoxybenzene (JONES and ROBINSON), 926.

$C_9H_{12}O_5N_4$ 3:5-Dinitro-2:4-dimethylaminoanisole (HINDMARSH, KNIGHT, and ROBINSON), 944.

9 IV

$C_9H_8O_4NCl$ 3-Chloro-5-acetylaminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 543.

$C_9H_8O_5NBr$ Bromonitroveratraldehydes (JONES and ROBINSON), 920, 923.

$C_9H_9O_5NS$ Veratric-6-sulphinide (BROWN and ROBINSON), 956.

$C_9H_{10}O_4NBr$ 6-Bromo-5-nitrohomoveratrole (JONES and ROBINSON), 919.

$C_9H_{13}O_4NS$ Homoveratrole-6-sulphonamide (BROWN and ROBINSON), 954.

C_{10} Group.

$C_{10}H_{10}O_3$ Benzoylacetone, action of aromatic amines on (TURNER), 1.

$C_{10}H_{10}O_5$ Opianic acid, action of phenylhydrazine on (MITTER and SEN), 988.

$C_{10}H_{12}O_6$ 2:6-Dihydroxy-3:4-dimethoxyacetophenone (NIERENSTEIN), 7.
$C_{10}H_{14}N_2$ Nicotine, compound of mercuric nitrite and (RÂY), 507.
$C_{10}H_{15}N$ *n*-Butylaniline, preparation of (REILLY and HICKINBOTTOM), 1026.
$C_{10}H_{16}N_2$ Phenyl-*n*-butylhydrazine, and its hydrochloride (REILLY and HICKINBOTTOM), 1028.
p-Phenylene-*n*-butyldiamine, and its salts (REILLY and HICKINBOTTOM), 1032.

10 III

$C_{10}H_4ON_2$ Naphth*iso*oxadiazole (GREEN and ROWE), 617.
$C_{10}H_4O_2N_2$ Naphth*iso*oxadiazole oxide (GREEN and ROWE), 616.
$C_{10}H_9O_7N$ Nitro-opianic acid, action of phenylhydrazine on (MITTER and SEN), 988.
$C_{10}H_{10}O_6N_2$ Acetyl derivatives of nitroaminomethoxybenzoic acids (SIMONSEN and RAU), 231.
$C_{10}H_{11}O_4N$ Acetyl derivatives of aminomethoxybenzoic acids (SIMONSEN and RAU), 225.
$C_{10}H_{11}O_6N$ Nitropiperonaldimethylacetal (ROBINSON), 120.
$C_{10}H_{11}O_7N_3$ Dinitro-3-acetylaminoveratroles (GIBSON, SIMONSEN, and RAU), 78, 81.
$C_{10}H_{12}O_5N_2$ 5-Nitro-3-acetylaminoveratrole (GIBSON, SIMONSEN, and RAU), 76.
Acetyl derivative of 6-nitroveratrylamine (JONES and ROBINSON), 914.
$C_{10}H_{12}O_6N_2$ 4:5-Dinitrocatechol diethyl ether (G. M. and R. ROBINSON), 933.
$C_{10}H_{12}O_2N_2$ *p*-Nitroso-*n*-butylanilinenitrosoamine (REILLY and HICKINBOTTOM), 1032.
$C_{10}H_{13}O_3N$ 3-Acetylaminoveratrole (GIBSON, SIMONSEN, and RAU), 80.
$C_{10}H_{14}ON_2$ *p*-Nitroso-*n*-butylaniline, and its hydrochloride (REILLY and HICKINBOTTOM), 1030.

10 IV

$C_{10}H_{11}O_5NS$ *N*-Methylveratric-6-sulphinide (BROWN and ROBINSON), 956.
$C_{10}H_{12}O_3NBr$ 6-Bromoacetoveratrylamide (JONES and ROBINSON), 912.

C_{11} Group.

$C_{11}H_{12}O_4$ Ethylcarbonatovanillin (LAPWORTH and WYKES), 792.
$C_{11}H_{12}O_6$ 3:4:6-Trimethoxy-2:5-quinoacetophenone (NIERENSTEIN), 8.
$C_{11}H_{14}O_3$ Zingerone (NOMURA), 769; (LAPWORTH, PEARSON, and ROYLE), 785; (LAPWORTH and WYKES), 792.
$C_{11}H_{14}O_5$ Hydroxytrimethoxyacetophenones (NIERENSTEIN), 8.
$C_{11}H_{14}O_6$ 2:5-Dihydroxy-3:4:6-trimethoxyacetophenone (NIERENSTEIN), 8.
2:3:4:6-Tetramethoxybenzoic acid (NIERENSTEIN), 6.
$C_{11}H_{22}O$ Methyl nonyl ketone, preparation of, from palm kernel oil (SALWAY), 407.

11 III

$C_{11}N_2O_3Cl$ 6-Chloro-3:4-methylenedioxystyryl methyl ketone (ORR, ROBINSON, and WILLIAMS), 948.
$C_{11}H_{12}O_7N_2$ 6-Nitro-2-acetylamino-3:4-dimethoxybenzoic acid, and its silver salt (GIBSON, SIMONSEN, and RAU), 74.
$C_{11}H_{13}O_5Cl$ 2:3:4:6-Tetramethoxybenzoyl chloride (NIERENSTEIN), 6.

11 IV

$C_{11}H_{10}O_5NCl$ 3-Chloro-5-diacetylaminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 542.

C_{12} Group.

$C_{12}H_{16}O_3$ Methylzingerone (NOMURA), 772; (LAPWORTH, PEARSON, and ROYLE), 786.

$C_{12}H_{16}O_5$ Tetramethoxyacetophenone (NIERENSTEIN), 7.

$C_{12}H_{16}O_6$ Methyl 2:3:4:6-tetramethoxybenzoate (NIERENSTEIN), 6.

$C_{12}H_{18}O_9$ Caramelan, preparation and constitution of (CUNNINGHAM and DORÉE), 593.

$C_{12}H_{22}O_{11}$ Sucrose, effect of methyl acetate on the inversion of (GRIFFITH, LAMBLE, and LEWIS), 390.

12 III

$C_{12}H_6O_{11}N_6$ 2:4:6:3′:5′-Pentanitro-4′-hydroxydiphenylamine (MELDOLA, FOSTER, and BRIGHTMAN), 550.

$C_{12}H_6O_7N_4$ 2:4:?-Trinitro-4′-hydroxydiphenylamine (MELDOLA, FOSTER, and BRIGHTMAN), 548.

Substance, from 2:4:6-trinitro-4′-hydroxydiphenylamine and nitric acid (MELDOLA, FOSTER, and BRIGHTMAN), 550.

$C_{12}H_9O_5N_3$ 2:4-Dinitro-4′-hydroxydiphenylamine (MELDOLA, FOSTER, and BRIGHTMAN), 547.

$C_{12}H_{11}O_4N$ Ethyl α-cyanocaffeate (LAPWORTH and WYKES), 798.

$C_{12}H_{12}O_8N_2$ 4:5-Dinitro-3-diacetylaminoveratrole (GIBSON, SIMONSEN, and RAU), 79.

$C_{12}H_{14}O_{17}N_4$ Caramelan tetranitrate (CUNNINGHAM and DORÉE), 595.

$C_{12}H_{17}O_3N$ Methylzingeroneoxime (NOMURA), 773; (LAPWORTH, PEARSON, and ROYLE), 786.

C_{13} Group.

$C_{13}H_{12}O_4$ 3:6:3′:6′-Tetrahydroxydiphenylmethane, preparation of (GHOSH and WATSON), 825.

$C_{13}H_{16}O_4$ Acetylzingerone (NOMURA), 772.

$C_{13}H_{18}O_3$ Ethylzingerone (NOMURA), 773.

13 III

$C_{13}H_9ON_3$ Benzoyl-*p*-phenylenediazoimide (MORGAN and UPTON), 195.

$C_{13}H_{10}O_7N_4$ *p*-Nitrobenzyl*iso*picramic acid (MELDOLA, FOSTER, and BRIGHTMAN), 553.

$C_{13}H_{11}O_5N_3$ 2:4-Dinitro-4′-hydroxydiphenylmethylamine (MELDOLA, FOSTER, and BRIGHTMAN), 549.

$C_{13}H_{13}O_4N$ Ethyl vanillylidenecyanoacetate (LAPWORTH and WYKES), 796.

$C_{13}H_{21}O_2N$ β-Diethylamino-β′-phenoxy*iso*propyl alcohol and its hydrochloride (PYMAN), 170.

C_{14} Group.

$C_{14}H_{14}S$ Benzyl sulphide, compound of ferric chloride with (FORSTER, COOPER, and YARROW), 809.

$C_{14}H_{18}O_5$ Ethylcarbonatozingerone (LAPWORTH, PEARSON, and ROYLE), 785; (LAPWORTH and WYKES), 794.

14 III

$C_{14}H_9O_{10}N_5$ 2:4:?:?-Tetranitro-4′-hydroxyacetyldiphenylamine (MELDOLA, FOSTER, and BRIGHTMAN), 549.

$C_{14}H_{10}O_9N_4$ 2:4:?-Trinitro-4′-hydroxyacetyldiphenylamine (MELDOLA, FOSTER, and BRIGHTMAN), 548.

$C_{14}H_{10}O_4N_2$ 4:5:4′:5′-Dimethylenetetraoxyazobenzene (ROBINSON), 113.

$C_{14}H_{11}O_6N_3$ Acetyl derivative of 2:4-dinitro-4′-hydroxydiphenylamin (MELDOLA, FOSTER, and BRIGHTMAN), 548.

$C_{14}H_{12}O_6N_2$ Dinitroanilinoveratrole (HINDMARSH, KNIGHT, and ROBINSON), 944.

$C_{14}H_{14}O_4N_2$ Phenylhydrazone of 2:3:4:6-tetrahydroxyacetophenone (NIERENSTEIN), 7.

$C_{14}H_{20}O_6N_2$ β-Diethylaminoethyl *p*-nitrophenylacetate, and its salts (PYMAN), 169.

$C_{14}H_{22}O_2N_2$ β-Diethylaminoethyl *p*-aminophenylacetate (PYMAN), 170.

14 IV

$C_{14}H_{12}O_2NCl$ Chlorobenzylaminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 544.

C_{15} Group.

$C_{15}H_{10}O_8$ Hydroxyquercetin, synthesis of (NIERENSTEIN), 4.

$C_{15}H_{14}O_{10}$ 2:3:4:6-Tetra-acetoxybenzoic acid (NIERENSTEIN), 6.

15 III

$C_{15}H_9O_9N_3$ 2-Nitro-4:5:4′:5′-dimethylenetetraoxyazoxybenzene-2′-carboxylic acid (ROBINSON), 119.

$C_{15}H_{10}O_8N_4$ Substance, from trinitroacetylaminophenol and aminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 538.

$C_{15}H_{12}O_3Br_2$ 5-Bromo-2-methoxyphenyl carbonate (HINDMARSH, KNIGHT, and ROBINSON), 941.

$C_{15}H_{13}O_5N$ Nitro-2-ethoxyphenyl benzoates (G. M. and R. ROBINSON), 933.

$C_{15}H_{14}O_4N_2$ *p*-Nitrobenzoyl-*p*-phenetidine (PYMAN), 172.

$C_{15}H_{14}O_6N_2$ 5-Nitro-3-benzoylaminoveratrole (GIBSON, SIMONSEN, and RAU), 76.

$C_{15}H_{14}O_7N_4$ 3:5-Dinitro-2:4-diamino-β-benzoyloxyethoxybenzene (G. M. and R. ROBINSON), 937.

$C_{15}H_{15}O_3N$ 3-Benzoylaminoveratrole (GIBSON, SIMONSEN, and RAU), 80.

$C_{15}H_{15}O_6N_3$ Dinitro-*p*-toluidinoveratrole (HINDMARSH, KNIGHT, and ROBINSON), 946.

$C_{15}H_{16}O_2N_2$ *p*-Aminobenzoyl-*p*-phenetidine (PYMAN), 172.

C_{16} Group.

$C_{16}H_{14}O_4$ *r*- and *meso*-Diphenylsuccinic acids, interconversion of esters of (WREN and STILL), 1019.

16 III

$C_{16}H_9O_6N_2$ Láctone of 3-hydroxy-5:6:4′:5′-dimethylenetetraoxy-2-phenylindole-2′-carboxylic acid (ROBINSON), 118.

$C_{16}H_{10}O_4N_2$ 2:3:6:7-Dimethylenetetraoxyanthraquinonedi-imide (BROWN and ROBINSON), 957.

$C_{16}H_{19}O_7N_3$ Azoxypiperonal (ROBINSON), 117.

$C_{16}H_{12}O_2N_2$ *p*-Hydroxybenzeneazodihydroxynaphthalenes (GHOSH and WATSON), 823.

$C_{16}H_{12}O_6N_4$ Substance, from nitration of C_8H_7ON (GHOSH), 611.

$C_{16}H_{13}ON_3$ *o*-Aminobenzeneazo-α-naphthol (GHOSH and WATSON), 824.
p-Hydroxybenzeneazo-β-naphthylamine, and its hydrochloride (GHOSH and WATSON), 824.

$C_{16}H_{13}O_5N$ *p*-Nitroacetylbenzoin, reactions of (FRANCIS), 1041.

$C_{16}H_{13}O_6N_3$ Phenylazonitromeconin (MITTER and SEN), 992.

$C_{16}H_{13}O_7N_3$ Diacetyl derivative of 2:4-dinitro-4′-hydroxydiphenylamine (MELDOLA, FOSTER, and BRIGHTMAN), 547.

$C_{16}H_{14}O_2N_2$ Phenylopiazone (MITTER and SEN), 992.

$C_{16}H_{14}O_4N_2$ Phenylazomeconin (MITTER and SEN), 991.
$C_{16}H_{16}O_4N_2$ Substance, from phenylhydrazine and opianic acid (MITTER and SEN), 991.
$C_{16}H_{16}O_9N_4$ 6:6′-Dinitroazoxyveratrole (ROBINSON), 116.
$C_{16}H_{17}O_7N_3$ 6-Nitroazoxyveratrole (ROBINSON), 115.
$C_{16}H_{18}O_5N_2$ Azoxyveratrole (ROBINSON), 114.

16 IV

$C_{16}H_{14}ONBr$ Benzoylacetone-*p*-bromoanilide (TURNER), 3.
$C_{16}H_{16}O_6N_4S$ 6-Nitroveratryl-4:5-thiotriazoveratrole (JONES and ROBINSON), 925.
$C_{16}H_{17}O_5N_2Br$ 6-Bromoazoxyveratrole (ROBINSON), 115.
$C_{16}H_{18}O_4N_4S$ 6-Aminoveratryl-4:5-thiotriazoveratrole (JONES and ROBINSON), 925.
$C_{16}H_{22}O_4N_4S_2$ Substance, from benzyl sulphate and thiocarbamide (TAYLOR), 656.

C_{17} Group.

$C_{17}H_{11}ON_3$ Benzoyl-1:4-naphthylenediazoimide (MORGAN and UPTON), 196.
$C_{17}H_{12}O_4N_2$ 4-Hydroxy-3-carboxybenzeneazo-β-naphthol (MELDOLA, FOSTER, and BRIGHTMAN), 538.
$C_{17}H_{12}O_7N_4$ 4:5-Dinitro-2-hydroxy-1-methoxy-3-azo-β-naphthol (GIBSON, SIMONSEN, and RAU), 82.
$C_{17}H_{13}O_2N_3$ Formyl-β-aminobenzeneazo-β-naphthol (MORGAN and UPTON), 193.
$C_{17}H_{16}O_4N_2$ 8-*p*-Nitrobenzoyl-1-methyl-1:2:3:4-tetrahydroquinoline (PYMAN), 171.
$C_{17}H_{17}O_2N$ 8-Benzoyloxy-1-methyl-1:2:3:4-tetrahydroquinoline (PYMAN), 171.
$C_{17}H_{21}ON$ *d*- and *l*-Phenylbenzylmethylallylammonium hydroxide, salts of, with bromocamphorsulphonic acids (REILLY), 20.
$C_{17}H_{21}O_4N$ Cocaine, compound of mercuric nitrite and (RÂY), 509.

17 IV

$C_{17}H_{11}O_4N_2Cl$ 5-Chloro-4-hydroxy-3-carboxybenzeneazo-β-naphthol (MELDOLA, FOSTER, and BRIGHTMAN), 543.

C_{18} Group.

$C_{18}H_{12}O_2$ Substance, from anthraquinone and acetaldehyde-ammonia (GHOSH), 611.
$C_{18}H_{18}O_4$ Benzoylzingerone (NOMURA), 771.

18 III

$C_{18}H_{18}O_7N_2$ Azoxyveratraldehyde (ROBINSON), 121.
$C_{18}H_{21}O_3N$ Codeine, compound of mercuric nitrite and (RÂY), 508.

18 IV

$C_{18}H_{22}O_4N_4S_2$ Substance, from benzyl oxalate and thiocarbamide (TAYLOR), 661.

C_{19} Group.

$C_{19}H_{14}O_5$ Trihydroxyaurin (GHOSH and WATSON), 826.
$C_{19}H_{14}O_7$ Trihydroxy-9-*o*-*p*-dihydroxyphenyl-6-fluorones (GHOSH and WATSON), 828.

19 III

$C_{19}H_{12}O_5Cl_2$ Di-6-chloromethylenedioxystyryl ketone (ORR, ROBINSON, and WILLIAMS), 948.
$C_{19}H_{22}ON_2$ Cinchonidine, compound of mercuric nitrite and (RÂY), 508.

C_{20} Group.

$C_{20}H_{20}O_7$ 2-Hydroxy-3:4:6-trimethoxyphenyl 3:4-dimethoxystyryl ketone (NIERENSTEIN), 8.

5:7:8:3′:4′-Pentamethoxyflavanone (NIERENSTEIN), 9.

$C_{20}H_{22}N_4$ Diphenyldi-*n*-butyltetrazone (REILLY and HICKINBOTTOM), 1030.

20 III

$C_{20}H_{13}O_6N$ Dibenzoyl derivative of nitrocatechol (G. M. and R. ROBINSON), 935.

$C_{20}H_{17}ON$ Benzoylacetone-*α*- and -*β*-naphthalides (TURNER), 3.

$C_{20}H_{21}O_8N$ 3-*iso*Nitroso-5:7:8:3′:4′-pentamethoxyflavanone (NIERENSTEIN), 9.

$C_{20}H_{24}O_2N_2$ Quinidine, compound of mercuric nitrite and (RÂY), 507.

Quinine, compound of mercuric nitrite and (RÂY), 507.

$C_{20}H_{25}O_3N$ *β*-Diethylamino-*β*′-phenoxy*iso*propylbenzoate, and its salts (PYMAN), 170.

20 IV

$C_{20}H_{16}O_6N_2Br_2$ Dibromotetramethoxyindigotins (JONES and ROBINSON), 921, 924.

C_{21} Group.

$C_{21}H_{13}O_5N_2$ 1:2-Methylenedioxyphenanthraphenazine (JONES and ROBINSON), 927.

$C_{21}H_{15}O_5N$ *p*-Nitrobenzoylbenzoin, constitution and hydrolysis of (FRANCIS), 1043.

$C_{21}H_{18}O_4N_2$ Cyanodihydroberberine (G. M. and R. ROBINSON), 966.

$C_{21}H_{19}O_3N$ 5-Dibenzylaminosalicylic acid (MELDOLA, FOSTER, and BRIGHTMAN), 537.

$C_{21}H_{20}O_6N_2$ Anhydroberberinenitromethane (G. M. and R. ROBINSON), 968.

$C_{21}H_{21}O_5N$ Methoxydihydroberberine (G. M. and R. ROBINSON), 967.

$C_{21}H_{22}O_2N_2$ Strychnine, compound of mercuric nitrite and (RÂY), 508.

21 IV

$C_{21}H_{11}O_2N_2Cl$ 4-Chloro-1:2-methylenedioxyphenanthraphenazine (ORR, ROBINSON, and WILLIAMS), 951.

C_{22} Group.

$C_{22}H_{24}O_8$ 2-Acetoxy-3:4:6-trimethoxyphenyl 3:4-dimethoxystyryl ketone (NIERENSTEIN), 9.

22 III

$C_{22}H_{14}O_2N_2$ 2:3-Ethylenedioxyphenanthraphenazine (G. M. and R. ROBINSON), 935.

$C_{22}H_{21}O_2N$ 2-Carboxy-4-dibenzylmethylammonium-1-benzoquinone (MELDOLA, FOSTER, and BRIGHTMAN), 538.

$C_{22}H_{21}NS$ Tribenzylsulphinium cyanide, and its salts (FORSTER, COOPER, and YARROW), 813.

$C_{22}H_{23}O_7N$ Narcotine, compound of mercuric nitrite and (RÂY), 508.

22 IV

$C_{22}H_{15}O_2N_2Br$ 4-Bromo-1:2-dimethoxyphenanthraphenazine (JONES and ROBINSON), 928.

C_{23} Group.

$C_{23}H_{16}O_3N_2$ Trimethoxyphenanthraphenazines (JONES and ROBINSON), 928.

$C_{23}H_{22}O_3N_2$ 3-Dimethylamino-9-*p*-hydroxyphenyl-6-dimethylfluorime (GHOSH and WATSON), 827.
$C_{23}H_{22}O_3N_2$ 3-Dimethylamino-9-*o*-*p*-dihydroxyphenyl-6-dimethylfluorime (GHOSH and WATSON), 827.
$C_{24}H_{24}ON_2$ 4-Hydroxymalachite-green (GHOSH and WATSON), 826.
$C_{23}H_{24}O_2N_2$ 2:4-Dihydroxymalachite-green (GHOSH and WATSON), 826.
3:6-Tetramethyldiamino-9-*p*-hydroxyphenylxanthene (GHOSH and WATSON), 827.
$C_{23}H_{26}O_4N_2$ Brucine, compound of mercuric nitrite and (RÂY), 509.

C_{24} Group.

$C_{24}H_{26}O_{13}$ Caramelin (CUNNINGHAM and DORÉE), 602.

24 III

$C_{24}H_{20}O_2N_2$ 2:3-Diethoxyphenanthraphenazine (G. M. and R. ROBINSON), 934.
$C_{24}H_{21}O_5N$ Dipiperonylidenetropinone (ROBINSON), 765.

C_{26} Group.

$C_{26}H_{20}O_2$ Tetraphenylmethane-*o*-carboxylic acid, and its salts (COPISAROW), 17.
$C_{26}H_{32}O_4$ Menthyl hydrogen diphenylsuccinates (WREN and STILL), 521.

C_{28} Group.

$C_{28}H_{18}O_5N_2$ 3:4-Di-*p*-nitrotetraphenylfuran (FRANCIS), 1039.
$C_{28}H_{22}O_5N_6$ Azoxypiperonal diphenylhydrazone (ROBINSON), 118.
$C_{28}H_{25}O_5N$ Anhydroberberineacetophenone (G. M. and R. ROBINSON), 968.

C_{29} Group.

$C_{29}H_{36}O_4N_2$ Emetamine, and its salts (PYMAN), 442.
$C_{29}H_{38}O_4N_2$ Methylpsychotrine, and its salts (PYMAN), 431.

C_{30} Group.

$C_{30}H_{50}$ Spinacene (CHAPMAN), 56.

30 II

$C_{30}H_{24}N_4$ Hydrazone of substance, $C_{18}H_{12}O_2$ (GHOSH), 612.
$C_{30}H_{50}Br_{12}$ Spinacene dodecabromide (CHAPMAN), 63.

30 III

$C_{30}H_{26}O_4N_2$ Benzoyl derivative of 3-dimethylamino-9-*o*-*p*-dihydroxyphenyl-6-dimethylfluorime (GHOSH and WATSON), 28.
$C_{30}H_{22}O_3N_2$ Benzoyl derivative of 3:6-tetramethyldiamino-9-*p*-hydroxyphenylxanthene (GHOSH and WATSON), 827.
$C_{30}H_{28}O_{10}N_2$ Substance, from caramelan and phenylhydrazine (CUNNINGHAM and DORÉE), 597.
$C_{30}H_{38}O_{15}N_2$ Substance, from caramelan and phenylhydrazine (CUNNINGHAM and DORÉE), 597.
$C_{30}H_{42}O_4N_2$ Methylemetine, and its salts (PYMAN), 444.
$C_{30}H_{50}O_{12}N_6$ Spinacene nitrosate (CHAPMAN), 67.

30 IV

$C_{30}H_{50}O_3N_3Cl_3$ Spinacene trinitrosochloride (CHAPMAN), 64.
$C_{30}H_{50}O_6N_6Cl_6$ Spinacene hexanitrosochloride (CHAPMAN), 66.

C_{32} Group.

$C_{32}H_{32}O_2N_2$ Dibenzoyl*iso*propylidenebenzidine (TURNER), 4.
$C_{32}H_{40}O_4N_2$ Methylemetinemethine, and its salts (PYMAN), 445.

C_{35} Group.

$C_{35}H_{22}O_{10}$ 2:3:4:6-Tetrabenzoyloxybenzoic acid (NIERENSTEIN), 6.

35 IV

$C_{35}H_{60}O_3N_4Cl_2$ Spinacene dinitrosochloride nitrolpiperidide (CHAPMAN), 65.

C_{36} Group.

$C_{36}H_{26}O_4$ Dimethyl diphenylsuccinates (WREN and STILL), 520.

36 III

$C_{36}H_{42}O_5N_2$ Benzoylmethylpsychotrine (PYMAN), 436.
$C_{36}H_{44}O_5N_2$ Benzoyl*iso*emetine (PYMAN), 439.

C_{37} Group.

$C_{37}H_{32}O_{20}N_2$ Substance, from caramelan and semicarbazide (CUNNINGHAM and DORÉE), 598.

37 IV

$C_{37}H_{58}O_3N_4Cl_2$ Spinacene dinitrosochloride nitrobenzylamide (CHAPMAN), 66.

C_{40} Group.

$C_{40}H_{54}O_{13}$ Caramelan tetrabenzoate (CUNNINGHAM and DORÉE), 595.

C_{45} Group.

$C_{45}H_{80}O_3N_6$ Spinacene trinitrolpiperidide (CHAPMAN), 65.

C_{51} Group.

$C_{51}H_{74}O_3N_6$ Spinacene trinitrolbenzylamide (CHAPMAN), 66.

ERRATA.

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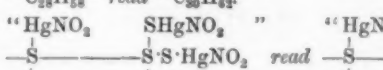
Page	Line	
17	24	*for* "diphenyphthalide" *read* "diphenylphthalide."
42	2	,, "hydroyl" *read* "hydroxyl."
68	12*	,, "$C_{28}H_{58}$" *read* "$C_{30}H_{62}$."
104	15	,, "$HgNO_2$ $SHgNO_2$" *read* "$HgNO_2$ $HgNO_2$" 
107	11*	,, "Hg = 6·14" *read* "Hg = 69·14."
168	1	,, "devoid of local anæsthetic properties (compare S. Fränkel, 'Die Arzneimittel-Synthese,' 1912, p. 349), but" *read* "having local anæsthetic properties in a lesser degree (Ehrlich and Einhorn, *Ber.*, 1894, **27**, 1870), and."
243	15*	,, "water" *read* "oxygen."
260	13*	,, "$H_3N\rightarrow$ $H_3N\rightarrow +\leftarrow Cl$ $H_3N\rightarrow Co\leftarrow Cl$ $H_3N\rightarrow$ (VII.)" *read* "$H_3N\rightarrow$ $H_3N\rightarrow +\rightleftharpoons Cl$ $H_3N\rightarrow Co\leftarrow Cl$ $H_3N\rightarrow$ (VII.)"
267	15	,, "$\left(Co^{5NH_3}_{Cl}\right)Cl$" *read* "$\left(Co^{5NH_3}_{Cl}\right)Cl_2$"
511	7*	,, "$CH_3\cdot C=C\cdot CO$ (S, HgCl)" *read* "$CH_3\cdot C=C\cdot CO$ (S, O, HgCl)"
566	7*	read the percentages of primary amine at the foot of Fig. 2 in reverse order, *i.e.* "7, 6, 5, 4, 3, 2, 1, 0."
650	1	*for* "*s-Alkylthiocarbamides*" read "*S-Alkylthiocarbamides.*"
655	8*	,, "$C_{11}H_{14}O_4N_{11}S_2$" *read* "$C_4H_{14}O_4N_4S_2$."
791	10	,, "CH:CAc:CO_2Et" (OMe, OH) *read* "CH:CAc·CO_2Et." (OMe, OH)
828	13	,, "$C_{20}H_{27}O_4N_2$" *read* "$C_{20}H_{26}O_4N_2$."
905	7*	,, "MeO, MeO, CHO, Me" *read* "MeO, MeO, CHO, Br."
908	1*	,, "$CH_2<O,O$, NO_2, NH" *read* "$CH_2<O,O$, NO_2, NH_2."
946	16	,, "displaement" *read* "displacement."
1070	4*	,, "*pentasulphate*" read "*pentasulphide.*"
1087	16	,, "156·3 μ" *read* "156·3 μμ."

* From bottom.